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FcR-I

|     |                                                                |     |
|-----|----------------------------------------------------------------|-----|
| 1   | GCAGGAATTCGGCACGAGCCTCTGTCCTGCCAGCACCGAGGGCTCATCCATCCACAGAGC   | 60  |
| 61  | AGTGCAGTGGGAGGAGACGCCATGACCCCCATCCTCACGGTCCTGATCTGTCTCGGGCCC   | 120 |
| 1   | <u>M T P I L T V L I C L G P</u>                               | 13  |
| 121 | CTCCCCAAGCCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCACCCAAGGGAGTCCTGTG   | 180 |
| 14  | <u>L P K P T L W A E P G S V I T Q G S P V</u>                 | 33  |
| 181 | ACCCTCAGGTGTCAGGGGAGCCTGGAGACGCAGGAGTACCATCTATATAGAGAAAAGAAA   | 240 |
| 34  | T L R C Q G S L E T Q E Y H L Y R E K K                        | 53  |
| 241 | ACAGCACTCTGGATTACACGGATCCACAGGAGCTTGTGAAGAAGGGCCAGTTCQCCTATC   | 300 |
| 54  | T A L W I T R I P Q E L V K K G Q F P I                        | 73  |
| 301 | CTATCCATCACCTGGGAACATGCAGGGCGGTATTGCTGTATCTATGGCAGCCACACTGCA   | 360 |
| 74  | L S I T W E H A G R Y C C I Y G S H T A                        | 93  |
| 361 | GGCCTCTCAGAGAGCAGTGACCCCCTGGAGCTGGTGGTGACAGGAGCCTACAGCAAACCC   | 420 |
| 94  | G L S E S S D P L E L V V T G A Y S K P                        | 113 |
| 421 | ACCCTCTCAGCTCTGCCCAGCCCTGTGGTGACCTCAGGAGGGAATGTGACCATCCAGTGT   | 480 |
| 114 | T L S A L P S P V V T S G G N V T I Q C                        | 133 |
| 481 | GACTCACAGGTGGCATTGTGATGGCTTCATTCTGTGTAAGGAAGGAGAAGATGAACACCCA  | 540 |
| 134 | D S Q V A F D G F I L C K E G E D E H P                        | 153 |
| 541 | CAATGCCTGAACCTCCATTCCCATGCCCCGTGGGTGCATCCCGGGCCATCTTCTCCGTGGGC | 600 |
| 154 | Q C L N S H S H A R G S S R A I F S V G                        | 173 |
| 601 | CCCGTGAGCCCCAAGTCGCAGGTGGTTCGTACAGGTGCTATGGTTATGACTCGCGCGCTCCC | 660 |
| 174 | P V S P S R R W S Y R C Y G Y D S R A P                        | 193 |
| 661 | TATGTGTGGTCTCTACCCAGTGATCTCCTGGGGCTCCTGGTCCCAGGTGTTTCTAAGAAG   | 720 |
| 194 | Y V W S L P S D L L G L L V P G V S K K                        | 213 |
| 721 | CCATCACTCTCAGTGCAGCCGGGTCTGTCTGGCCCCCTGGGGAGAAGCTGACCTTCCAG    | 780 |

**FIG. 1A**

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FcR-I

|      |                                                              |      |
|------|--------------------------------------------------------------|------|
| 214  | P S L S V Q P G P V V A P G E K L T F Q                      | 233  |
| 781  | TGTGGCTCTGATGCCGGCTACGACAGATTGTTCTGTACAAGGAGTGGGGACGTGACTTC  | 840  |
| 234  | C G S D A G Y D R F V L Y K E W G R D F                      | 253  |
| 841  | CTCCAGCGCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCCAGGCCAACTTCACCCTGGGC | 900  |
| 254  | L Q R P G R Q P Q A G L S Q A N F T L G                      | 273  |
| 901  | CCTGTGAGCCGCTCCTACGGGGGCCAGTACACATGCTCCGGTGCATACAACCTCTCCTCC | 960  |
| 274  | P V S R S Y G G Q Y T C S G A Y N L S S                      | 293  |
| 961  | GAGTGGTCGGCCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGTGCCAGA  | 1020 |
| 294  | E W S A P S D P L D I L I T G Q I R A R                      | 313  |
| 1021 | CCCTTCCTCTCCGTGCGGCCGGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTG | 1080 |
| 314  | P F L S V R P G P T V A S G E N V T L L                      | 333  |
| 1081 | TGTCAGTCACAGGGAGGGATGCACACTTTCTTTTGACCAAGGAGGGGGCAGCTGATTCC  | 1140 |
| 334  | C Q S Q G G M H T F L L T K E G A A D S                      | 353  |
| 1141 | CCGCTGCGTCTAAATCAAAGCGCCAATCTCATAAGTACCAGGCTGAATTCCCCATGAGT  | 1200 |
| 354  | P L R L K S K R Q S H K Y Q A E F P M S                      | 373  |
| 1201 | CCTGTGACCTCGGCCCACGCGGGGACCTACAGGTGCTACGGCTCACTCAGCTCCAACCCC | 1260 |
| 374  | P V T S A H A G T Y R C Y G S L S S N P                      | 393  |
| 1261 | TACCTGCTGACTACCCCAGTGACCCCCTGGAGCTCGTGGTCTCAGGAGCAGCTGAGACC  | 1320 |
| 394  | Y L L T H P S D P L E L V V S G A A E T                      | 413  |
| 1321 | CTCAGCCCACCACAAAACAAGTCCGACTCCAAGGCTGGTGAGTGAGGAGATGCTTGCCGT | 1380 |
| 414  | L S P P Q N K S D S K A G E *                                | 427  |
| 1381 | GATGACGCTGGGCACAGAGGGTCAGGTCTGTCAAGAGGAGCTGGGTGTCCTGGGTGGAC  | 1440 |
| 1441 | ATTTGAAGAATTATATTCAATCCAAGTGAAGAATTATTCAACACCTTTAACAATGTATA  | 1500 |
| 1501 | TGTGAAGTACTTTATTCTTTCATATTTTAAAAATAAAAGATAATTATCCATG         | 1552 |

FIG. 1B

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Percent Similarity: 63.090

Percent Identity: 45.064

HMQDO20.aa x FCg2RBos.aa

191 RPYVWSLPSDLLGLLVPGVSKKPSLSVQPGPVVAPGEKLTFCGSDAGY 240  
..|...:|. :| . : :|. .|| :...:|:..||: |...:|: |...:..  
6 PALLCLGLSVGLRTQVQAGTFPKPIIWAEPSSVVPLGSSVTILCQGPNT 55

241 DRFVLYKEWGRDFLQRPGRQPQAGLSQANFTLGPVSRSYGGQYTCGAYN 290  
..| | | | | . : :... ..:..||| :: |. :|. | | | .  
56 KSFSLNKE..GDSTPWNHPSLEPWDKANFFISNVREQQAGRYHCS..HF 101

291 LSSEWSAPSDPLDILITGQ.....IRARPFLSVRPGPTVASGENVTLLCQ 335  
:: :||. ||: |||: |:..|: :|. || | |||: |. ||. || || || || ||  
102 IGVNWSEPSEPLDLLVAGEEPAGRLRDRPSLSVRPSPSVAPGENVTLLCQ 151

336 SQGGMHTFLLTKEGAADSPLRLKSKRQSHKYQAEFPMSPV TSAHAGTYRC 385  
|.. . ||||. |||||.. ||||:|. |. . |||||. : ||||| ||| || || ||  
152 SGNRTDTFLLSKEGAHRPLRLRSQDQDGWYQAEFSLSPV TSAHGGTYRC 201

386 YGSLSSNPYLLTHPSDPLELVVSG.....AAETL.....SP 416  
| |||. |||||. : ||: ||. | : |. : ||..| :  
202 YRSLSTNPYLLSQPSEPLALLVADYTMQNLIRMGLAASVLLLLGILLCQA 251

417 PQNKSDSKAGE 427  
.....  
252 RHDHGGAREAA 262

FIG. 2

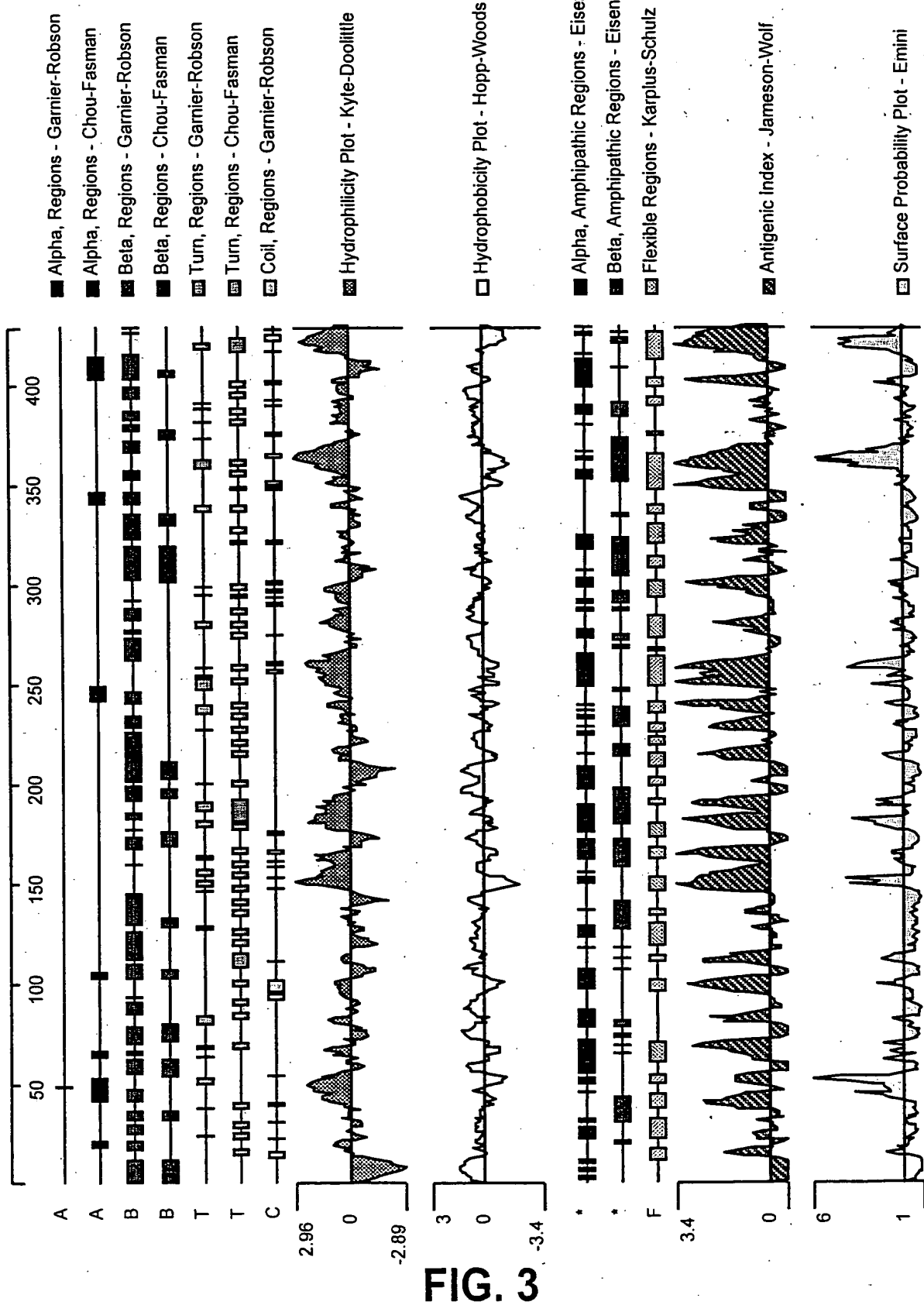


FIG. 3

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# FcRII

|     |                                                               |     |
|-----|---------------------------------------------------------------|-----|
| 1   | ACCCACGCGTCCGCACTCTAGCGGTATCTGCCCACCATGGCCCTGGTGCTGATCCTCCAG  | 60  |
| 1   | <u>M A L V L I L Q</u>                                        | 8   |
| 61  | CTGCTGACCCTCTGGCCTCTGTGTACACAGACATCACTCCGTCTGTCCCCCAGCTTCA    | 120 |
| 9   | <u>L L T L W P L C H T</u> D I T P S V P P A S                | 28  |
| 121 | TACCACCCTAAGCCATGGCTGGGAGCTCAGCCGGCTACAGTTGTGACCCCTGGGGTCAAC  | 180 |
| 29  | Y H P K P W L G A Q P A T V V T P G V N                       | 48  |
| 181 | GTGACCTTGAGATGCCGGGCACCCCAACCCGCTTGGAGATTTGGACTTTTCAAGCCTGGA  | 240 |
| 49  | V T L R C R A P Q P A W R F G L F K P G                       | 68  |
| 241 | GAGATCGCTCCCCTTCTCTCCGGGATGTGTCTCCGAGCTGGCAGAATTCTTTCTGGAG    | 300 |
| 69  | E I A P L L F R D V S S E L A E F F L E                       | 88  |
| 301 | GAGGTGACTCCAGCCCAAGGGGGAAGTTACCGCTGCTGCTACCGAAGGCCAGACTGGGGG  | 360 |
| 89  | E V T P A Q G G S Y R C C Y R R P D W G                       | 108 |
| 361 | CCGGGTGTCTGGTCCCAGCCAGCGATGTCTGGAGCTGCTGGTGACAGAGGAGCTGCCG    | 420 |
| 109 | P G V W S Q P S D V L E L L V T E E L P                       | 128 |
| 421 | CGGCCGTCGCTGGTGGCGCTGCCCCGGGCCGGTGGTGGGTCCTGGCGCCAACGTGAGCCTG | 480 |
| 129 | R P S L V A L P G P V V G P G A N V S L                       | 148 |
| 481 | CGCTGCGCGGGCCGCTGCGGAACATGAGCTTCGTGCTGTACCGCGAGGGCGTGGCGGCC   | 540 |
| 149 | R C A G R L R N M S F V L Y R E G V A A                       | 168 |
| 541 | CCGCTGCAGTACCGCCACTCCGCGCAGCCCTGGGCCGACTTCACGCTGCTGGGCGCCCGC  | 600 |
| 169 | P L Q Y R H S A Q P W A D F T L L G A R                       | 188 |
| 601 | GCCCCGGGCACCTACAGCTGTACTATCACACGCCCTCCGCGCCCTACGTGCTGTGCGAG   | 660 |
| 189 | A P G T Y S C Y Y H T P S A P Y V L S Q                       | 208 |

FIG. 4A

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**FcRII**

661 CGCAGCGAGGTGCTGGTCATCAGCTGGGAAGACTCTGGCTCCTCCGACTACACCCGGGGG 720  
209 R S E V L V I S W E D S G S S D Y T R G 228  
721 AACCTAGTCCGCCTGGGGCTGGCCGGGCTGGTCCTCATCTCCCTGGGCGCGCTGGTCACT 780  
229 N L V R L G L A G L V L I S L G A L V T 248  
781 TTTGACTGGCGCAGTCAGAACCGCGCTCCTGCTGGTATCCGCCCCTGAGCCCCAGGAGCA 840  
249 F D W R S Q N R A P A G I R P \* 263  
841 CTGCAGCCCCGAGACTTCCAACCTGAGTGGCGGAGAAGCTGGGACCCTGGGCTGGACTGTC 900  
901 CTTTCCTGCAGCCCCACAGTCCTGCTGGCTGAGCTCCGCGGAACGGTCCTTAGACCCCGC 960  
961 TGTGCCCTGTGCTGTAGCTTCTTTCCAGGCCTTTCCCAAGGAGTAGCTGAAAGGAAGACG 1020  
1021 CGATTAGTGGTTAAGACTTCCAAGCCAGAAGACAGAGGGTTCGAATCCCAGCACTGCCGT 1080  
1081 CTACTCACTGTAGTAGTAGCAGCTACAGAAAGGTAGTAGTGAGACGTGAAGCCAGCTGGA 1140  
1141 CTTCTGGGTTGAATGGGGACCTGGAGAACTTTCTGTCTTACAAGAGGATTGTAAATG 1200  
1201 GACCAATCAGCACTCTGTAAGATGGACCAATCAGCGCTCTGTAAAATGGACCAATCAGCA 1260  
1261 GGACATGGGCGGGGACAATAAGGGAATAAAAGCTGGCGAGCGCGGCACCCACCAGAGTC 1320  
1321 TGCTTCCAGCTGTGGGAGCTTTGTTCTCTTGCTCTACACAATAAATCTTGCTGCTGCTA 1380  
1381 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1410

**FIG. 4B**

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Percent Similarity: 54.400

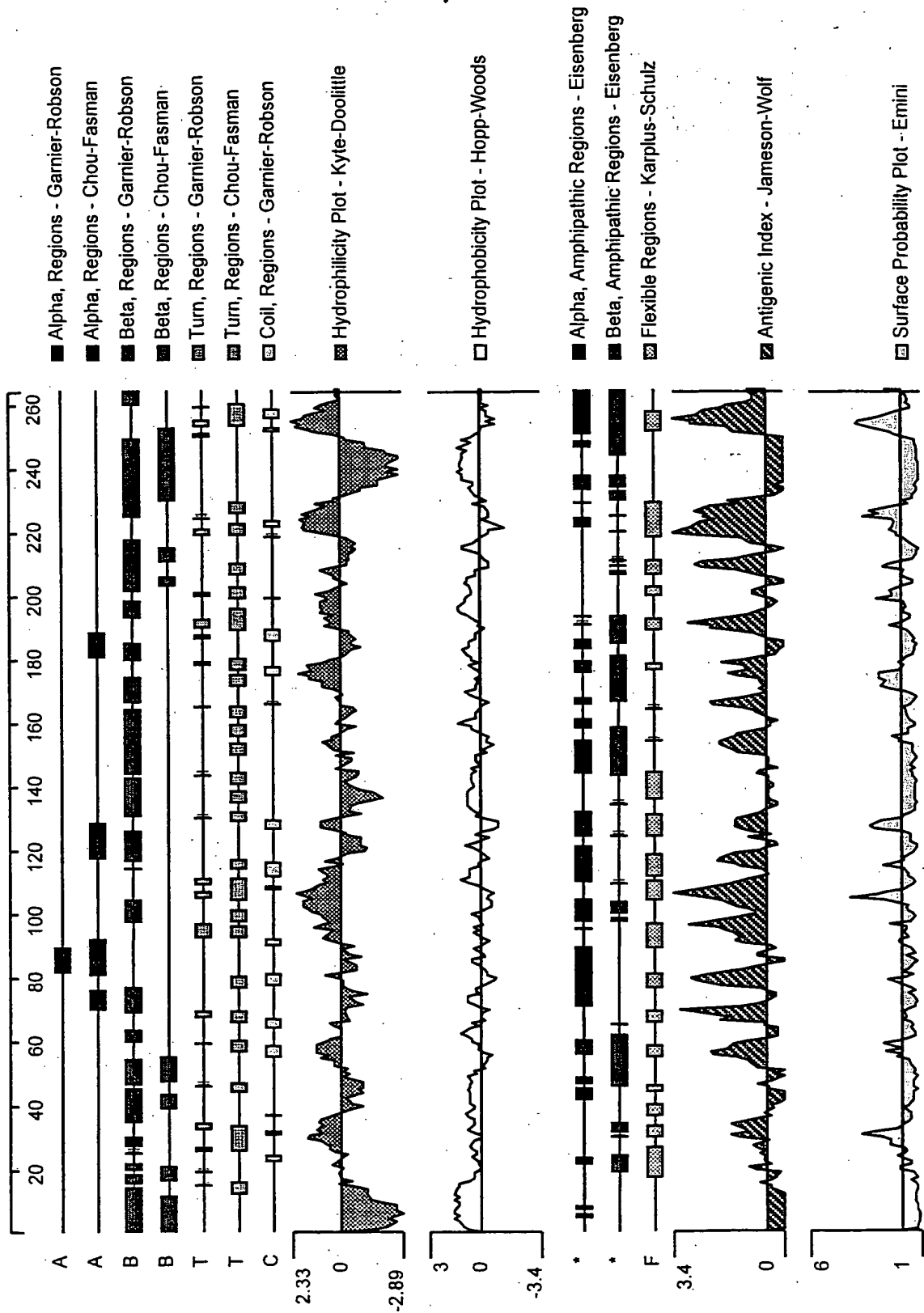
Percent Identity: 37.600

HDPMK33.aa x FCg2RBos.aa

5 LILQLLTLWPLCHTDITPSVPPASYHPKPWLGAQPATVVTPGVNVTLCR 54  
: | .|:|. . . . .|: ||| : |:|..||. | .||: |.  
1 MAPTLPALCLGLSVGLRTQVQAGTFPKPIIWAEPSSVVPLGSSVTILCQ 50  
55 APQPAWRFGFLFKPGEIAPLLFRDV..SSELAEFFLEEVTPAQGGSYRCCY 102  
:|. ...|:| |. |: .|: ::. ... |:|:|:| ..|:|. |:|:  
51 GPPNTKSFSLNKEGDSTPWNHPSLEPWDKANFFISNVREQQAGRYHCS. 99  
103 RRPDWGPGVWSQPSDVLELLVTEELP.....RPSLVALPGPVVGPGANV 146  
.: .. ||:|:|:|:|:|:| | | | | . |:| |:|:|:|  
100 ...HFIGVNWSEPSEPLDLLVAGEEPAGRLRDRPSLSVRPSPSVAPGENV 146  
147 SLRCAGRLRNMSFVLYREGVAA.PLQYRHSAP...WADFTL..LGARAP 190  
. | |: |. |:| :|:| | |..| .|. |:|:| :...  
147 TLLCQSGNRTDTFLLSKEGAHRPLRLRSQDQDGWYQAEFSLSPVTSAHG 196  
191 GTYSCYYHTPSAPYVLSQRSEVLVISWEDSGSSDYTRGNLVRGLAGLVL 240  
|||.|| ...||:|:|:|:|. |: .|||..||:|:|:|: ||  
197 GTYRCYRSLSTNPYLLSQPSEPLALL.....VADYTMQNLIRMGLAASVL 241  
241 ISLGALVTFDWRSQNRAPAGIRP 263  
: || |: .: .: .: |.: |.  
242 LLLGILLCQARHDHGGAREAAARS 264

FIG. 5

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FcR-III

1 GCAGGAATTCGGCAGCAGCACTGAGGGCTCATCCCTCTGCAGAGCGGGGTACCG 60  
61 GAAGGAGACGCCATGACGCCCGCCCTCACAGCCCTGCTCTGCCTTGGGCTGAGTCTGGGC 120  
1 M T P A L T A L L C L G L S L G 16  
121 CCCAGGACCCGCGTGCAGGCAGGGCCCTTCCCAAACCCACCCTCTGGGCTGAGCCAGGC 180  
17 P R T R V Q A G P F P K P T L W A E P G 36  
181 TCTGTGATCAGCTGGGGGAGCCCCGTGACCATCTGGTGTGAGGGAGCCTGGAGGCCAG 240  
37 S V I S W G S P V T I W C Q G S L E A Q 56  
241 GAGTACCAACTGGATAAAGAGGGAAGCCCAGAGCCCTTGGACAGAAATAACCCACTGGAA 300  
57 E Y Q L D K E G S P E P L D R N N P L E 76  
301 CCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACACAGCACCATGCAGGGAGATAC 360  
77 P K N K A R F S I P S M T Q H H A G R Y 96  
361 CGCTGCCACTATTACAGCTCTGCAGGCTGGTCAGAGCCCAGCGACCCCTGGAGCTGGTG 420  
97 R C H Y Y S S A G W S E P S D P L E L V 116  
421 ATGACAGGAGCCTATAGCAAACCCACCCTCTCAGCCCTGCCAGCCCTGTGGTGGCCTCA 480  
117 M T G A Y S K P T L S A L P S P V V A S 136  
481 GGGGGGAATATGACCCTCCGATGTGGCTCACAGAAGAGATATCACCATTTGTTCTGATG 540  
137 G G N M T L R C G S Q K R Y H H F V L M 156  
541 AAGGAAGGAGAACACCAGCTCCCCCGGACCCTGGA CTACAGCAGCTCCACAGTGGGGGG 600  
157 K E G E H Q L P R T L D S Q Q L H S G G 176  
601 TTCCAGGCCCTGTTCCCTGTGGGCCCCGTGAACCCAGCCACAGGTGGAGGTTACATGC 660  
177 F Q A L F P V G P V N P S H R W R F T C 196

FIG. 7A

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FcR-III

|      |                                                                |      |
|------|----------------------------------------------------------------|------|
| 661  | TATTACTATTATATGAACACCCCCCGGGTGTGGTCCCACCCAGTGACCCCCTGGAGATT    | 720  |
| 197  | Y Y Y Y M N T P R V W S H P S D P L E I                        | 216  |
| 721  | CTGCCCTCAGGCGTGTCTAGGAAGCCCTCCCTCCTGACCCTGCAGGGCCCTGTCCTGGCC   | 780  |
| 217  | L P S G V S R K P S L L T L Q G P V L A                        | 236  |
| 781  | CCTGGGCAGAGCCTGACCCTCCAGTGTGGCTCTGATGTCGGCTACGACAGATTTGTTCTG   | 840  |
| 237  | P G Q S L T L Q C G S D V G Y D R F V L                        | 256  |
| 841  | TATAAGGAGGGGAACGTGACTTCCTCCAGCGCCCTGGCCAGCAGCCCCAGGCTGGGCTC    | 900  |
| 257  | Y K E G E R D F L Q R P G Q Q P Q A G L                        | 276  |
| 901  | TCCCAGGCCAACTTCACCCTGGGCCCTGTGAGCCCTCCAATGGGGGCCAGTACAGGTGC    | 960  |
| 277  | S Q A N F T L G P V S P S N G G Q Y R C                        | 296  |
| 961  | TACGGTGCACACAACCTCTCCTCCGAGTGGTCGGCCCCCAGCGACCCCTGAACATCCTG    | 1020 |
| 297  | Y G A H N L S S E W S A P S D P L N I L                        | 316  |
| 1021 | ATGGCAGGACAGATCTATGACACCGTCTCCCTGTCAGCACAGCCGGGCCCCACAGTGGCC   | 1080 |
| 317  | M A G Q I Y D T V S L S A Q P G P T V A                        | 336  |
| 1081 | TCAGGAGAGAACGTGACCCTGCTGTGTGTCAGTCATGGTGGCAGTTTGACACTTTCCTTCTG | 1140 |
| 337  | S G E N V T L L C Q S W W Q F D T F L L                        | 356  |
| 1141 | ACCAAAGAAGGGGCAGCCATCCCCACTGCGTCTGAGATCAATGTACGGAGCTCATAAG     | 1200 |
| 357  | T K E G A A H P P L R L R S M Y G A H K                        | 376  |
| 1201 | TACCAGGCTGAATTCCCCATGAGTCCTGTGACCTCAGCCCACGCGGGGACCTACAGGTGC   | 1260 |
| 377  | Y Q A E F P M S P V T S A H A G T Y R C                        | 396  |
| 1261 | TACGGCTCACGCAGCTCCAACCCCTACCTGCTGTCTACCCCAGTGAGCCCCTGGAGCTC    | 1320 |
| 397  | Y G S R S S N P Y L L S H P S E P L E L                        | 416  |

FIG. 7B

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FcR-III

|      |                                                              |      |
|------|--------------------------------------------------------------|------|
| 1321 | GTGGTCTCAGGACACTCTGGAGGCTCCAGCCTCCCACCCACAGGGCCGCCCTCCACACCT | 1380 |
| 417  | V V S G H S G G S S L P P T G P P S T P                      | 436  |
| 1381 | GGTCTGGGAAGATACCTGGAGGTTTTGATTGGGGTCTCGGTGGCCTTCGTCCTGCTGCTC | 1440 |
| 437  | G L G R Y L E V L I G V S V A F V L L L                      | 456  |
| 1441 | TTCCTCCTCCTTCTCCTCCTCCGACGTCAGCGTCACAGCAAACACAGGACATCTGAC    | 1500 |
| 457  | F L L L F L L L R R Q R H S K H R T S D                      | 476  |
| 1501 | CAGAGAAAGACTGATTTCAGCGTCCTGCAGGGGCTGCGGAGACAGAGCCCAAGGACAGG  | 1560 |
| 477  | Q R K T D F Q R P A G A A E T E P K D R                      | 496  |
| 1561 | GGCCTGCTGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGAAGAAAACCTCTATGCTGCC | 1620 |
| 497  | G L L R R S S P A A D V Q E E N L Y A A                      | 516  |
| 1621 | GTGAAGGACACACAGTCTGAGGACGGGGTGGAGCTGGACAGTCAGAGCCCACACGATGAA | 1680 |
| 517  | V K D T Q S E D G V E L D S Q S P H D E                      | 536  |
| 1681 | GACCCCCACGCAGTGACGTATGCCCCGGTGAAACACTCCAGTCCTAGGAGAGAAATGGCC | 1740 |
| 537  | D P H A V T Y A P V K H S S P R R E M A                      | 556  |
| 1741 | TCTCCTCCTTCCCCACTGTCTGGGGAATTCCTGGACACAAAGGACAGACAGGCAGAAGAG | 1800 |
| 557  | S P P S P L S G E F L D T K D R Q A E E                      | 576  |
| 1801 | GACAGACAGATGGACACTGAGGCTGCTGCATCTGAAGCCTCCCAGGATGTGACCTACGCC | 1860 |
| 577  | D R Q M D T E A A A S E A S Q D V T Y A                      | 596  |
| 1861 | CAGCTGCACAGCTTGACCCTTAGACGGAAGGCAACTGAGCCTCCTCCATCCCAGGAGTTC | 1920 |
| 597  | Q L H S L T L R R K A T E P P P S Q E F                      | 616  |
| 1921 | GAGTCAGTCAGATCAGCATTGTGAGGCCCCATCTCTACAAAAAATAAAACCAGTCCGGCG | 1980 |
| 617  | E S V R S A L *                                              | 623  |

1981 TGGTGGCACA 1991

FIG. 7C

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Percent Similarity: 69.697

Percent Identity: 53.788

HMPAP73.aa x FCg2RBos.aa

```
1 MTPALTALLCLGLSLGPRTRVQAGFPKPTLWAEPGSVISWGSPTIWCQ 50
  |.|.|.|||||||:| ||.||||.||||.:||||:|:|:|.|.||||:|
1 MAPTLPALCLGLSVGLRTQVQAGTFPKPIIWAEPSSVVPLGSSVTILCQ 50

51 GSLEAQEYQLDKEGSPEPLDRNNPLEPKNKARFSIPSMTQHHAGRYRCHY 100
  |. :...: |:|...|: : .|||.:||. |... :|||:| .
51 GPPNTKSFSLNKEGDSTPWNHPSLEPWDKANFFISNVREQQAGRYHCSH 100

101 YSSAGWSEPSDPLELVMGTGAYSKPTLSALPSPVVASGGNMTLRCSQKRY 150
   : ...|...|:|:|:|. .
101 FIGVNWSEPEPLDLLVAGEEP..... 122

151 HHFVLMKEGEHQLPRTLDSQQLHSGGFQALFPVGPVNPSHRWRFTCYYYY 200
122 ..... 122

201 MNTPRVWSHPSDPLEILPSGVSRKPSLLTLQGPVLAPGQSLTLQCGSDVG 250
122 ..... 122

251 YDRFVLYKEGERDFLQRPQQPQAGLSQANFTLGPVSPSNGGQYRCYGAH 300
122 ..... 122

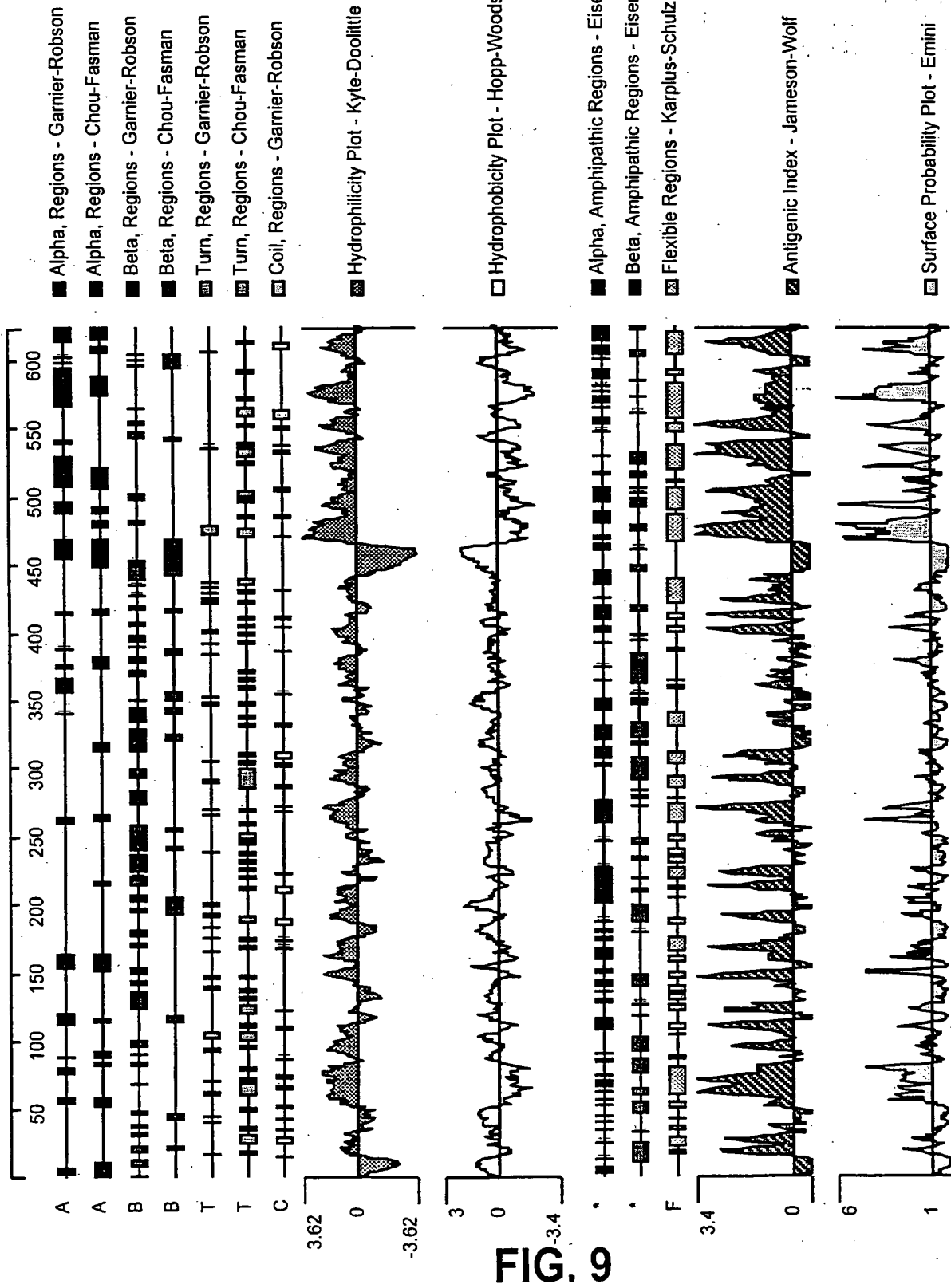
301 NLSSEWSAPSDPLNILMAGQIYDTVLSAQPGPTVASGENVTLLCQSWWQ 350
      ||.: | .|||.:|.||.|||||||
123 .....AGRLRDRPSLSVRPSVAPGENVTLLCQSGNR 155

351 FDTFLLTKEGAHPPLRLRSMYGAHKYQAEFPMSPVTSAHAGTYRCYGSR 400
      |||||.|||||.||||| .. .||||.:|||||:||||| |
156 TDTFLLSKEGAHRPLRLRSQDQDGWYQAEFSLSPVTSAHGGTYRCYRSL 205

401 SSNPYLLSHPSEPLELVVSGHSGGSSLPPTGPPSTPGLGRYLEVLIGVSV 450
  |.|||||:|||||.|:|:... :: || :::
206 STNPYLLSQPSEPLALLVADYT.....MQNLIRMGL 236

451 AFVLLLFLLLFLLLRQRHSHKRTSDQR 478
  | :||:| ::| |: |: |.....
237 AASVLLLGLLCQARHDHGGAREAAARS 264
```

FIG. 8



**14/21**  
**FcR-IV**

|     |                                                               |     |
|-----|---------------------------------------------------------------|-----|
| 1   | GGAATTCGGGAGGAGACGCCATGATCCCCACCTTCACGGCTCTGCTCTGCCTCGGGCTG   | 60  |
| 1   | <u>M I P T F T A L L C L G L</u>                              | 13  |
| 61  | AGTCTGGGCCCCAGTACCCACATGCAGGCAGGGCCCCCTCCCAAACCCACCCTCTGGGCT  | 120 |
| 14  | <u>S L G</u> P S T H M Q A G P L P K P T L W A                | 33  |
| 121 | GAGCCAGGCTCTGTGATCAGCTGGGGAACTCTGTGACCATCTGGTGTGAGGGGACCCTG   | 180 |
| 34  | E P G S V I S W G N S V T I W C Q G T L                       | 53  |
| 181 | GAGGCTCGGGAGTACCGTCTGGATAAAGAGGAAAGCCCAGCACCCCTGGGACAGACAGAAC | 240 |
| 54  | E A R E Y R L D K E E S P A P W D R Q N                       | 73  |
| 241 | CCACTGGAGCCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGACAGAGGACTATGCA  | 300 |
| 74  | P L E P K N K A R F S I P S M T E D Y A                       | 93  |
| 301 | GGGAGATACCGCTGTTACTATCGCAGCCCTGTAGGCTGGTCACAGCCCAGTGACCCCTG   | 360 |
| 94  | G R Y R C Y Y R S P V G W S Q P S D P L                       | 113 |
| 361 | GAGCTGGTGATGACAGGAGCCTACAGTAAACCCACCCTTTCAGCCCTGCCGAGTCTCTT   | 420 |
| 114 | E L V M T G A Y S K P T L S A L P S P L                       | 133 |
| 421 | GTGACCTCAGGAAAGAGCGTGACCCTGCTGTGTCAGTCACGGAGCCCAATGGACACTTTT  | 480 |
| 134 | V T S G K S V T L L C Q S R S P M D T F                       | 153 |
| 481 | CTTCTGATCAAGGAGCGGGCAGCCCATCCCTACTGCATCTGAGATCAGAGCACGGAGCT   | 540 |
| 154 | L L I K E R A A H P L L H L R S E H G A                       | 173 |
| 541 | CAGCAGCACCAGGCTGAATCCCCATGAGTCCTGTGACCTCAGTGCACGGGGGACCTAC    | 600 |
| 174 | Q Q H Q A E F P M S P V T S V H G G T Y                       | 193 |
| 601 | AGGTGCTTCAGCTCACACGGCTTCTCCCACTACCTGCTGTACACCCCAGTGACCCCTG    | 660 |
| 194 | R C F S S H G F S H Y L L S H P S D P L                       | 213 |
| 661 | GAGTCATAGTCTCAGGATCCTTGGAGGGTCCCAGGCCCTCACCCACAAGGTCCGTCTCA   | 720 |
| 214 | E L I V S G S L E G P R P S P T R S V S                       | 233 |

**FIG. 10A**

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FcR-IV

|      |                                                              |      |
|------|--------------------------------------------------------------|------|
| 721  | ACAGCTGCAGGCCCTGAGGACCAGCCCCTCATGCCTACAGGGTCAGTCCCCACAGTGGT  | 780  |
| 234  | T A A G P E D Q P L M P T G S V P H S G                      | 253  |
| 781  | CTGAGAAGGCACTGGGAGGTACTGATCGGGGTCTTGGTGGTCTCCATCCTGCTTCTCTCC | 840  |
| 254  | L R R H W E V L I G V L V V S I L L L S                      | 273  |
| 841  | CTCCTCCTCTTCCTCCTCCTCCAACACTGGCGTCAGGGAAAACACAGGACATTGGCCCAG | 900  |
| 274  | L L L F L L L Q H W R Q G K H R T L A Q                      | 293  |
| 901  | AGACAGGCTGATTTCCAACGTCCTCCAGGGGTGCCGAGCCAGAGCCCAAGGACGGGGGC  | 960  |
| 294  | R Q A D F Q R P P G A A E P E P K D G G                      | 313  |
| 961  | CTACAGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGGAGAAACTTCTGTGCTGCCGTG  | 1020 |
| 314  | L Q R R S S P A A D V Q G E N F C A A V                      | 333  |
| 1021 | AAGGACACACAGCCTGAGGACGGGGTGGAAATGGACACTCGGCAGAGCCCACACGATGAA | 1080 |
| 334  | K D T Q P E D G V E M D T R Q S P H D E                      | 353  |
| 1081 | GACCCCCAGGCAGTGACGTATGCCAAGGTGAAACACTCCAGACCTAGGAGAGAAATGGCC | 1140 |
| 354  | D P Q A V T Y A K V K H S R P R R E M A                      | 373  |
| 1141 | TCTCCTCCCTCCCCACTGTCTGGGGAATTCCTGGACACAAAGGACAGACAGGCAGAAGAG | 1200 |
| 374  | S P P S P L S G E F L D T K D R Q A E E                      | 394  |
| 1201 | GACAGACAGATGGACACTGAGGCTGCTGCATCTGAAGCCCCCAGGATGTGACTACGCCC  | 1260 |
| 395  | D R Q M D T E A A A S E A P Q D V T T P                      | 413  |
| 1261 | GGCTGCACAGCTTTACCCTCAGACAGAAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGG | 1320 |
| 414  | G C T A L P S D R R Q L S L L H P R K G                      | 433  |
| 1321 | CCTCTCCAGCTGAGCCCAGTGTCTATGCCACTCTGGCCATCCACTAATCCAGGGGGGACC | 1380 |
| 434  | P L Q L S P V S M P L W P S T N P G G T                      | 453  |
| 1381 | CAGACCCACAAGCCATGGAGACTCAGGACCCAGAGGCATGGAAGCTGCCTCCAGTAG    | 1440 |
| 454  | Q T P Q A M E T Q D P R R H G S C L Q *                      | 472  |
| 1441 | ACATCACTGAACCCAGCCAGCCAGACCCCTGACACAGACCACTAGAAGATTCCGGGAA   | 1500 |
| 1501 | CGTGGGAGTCACCTGATTCTGCAAAGATAAATAATATCCCTGCATTATC            | 1550 |

**FIG. 10B**

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Percent Similarity: 67.969 Percent Identity: 50.781

HMSHH46new.aa x FCg2RBos.aa

```
1 MIPTFTALLCLGLSLGPSTHMQAGPLPKPTLWAEPGSVISWGNSTIWCQ 50
  | |::| | | | | | | | | | | | | | | | | | | | | | | | | |
1 MAPTLPALCLGLSVGLRTQVQAGTFPKPIIWAEPSSVVPLGSSVTILCQ 50

51 GTLEAREYRLDKEESPAPWDRQNPLEPKNKARFSIPSMTEYAGRYRCYY 100
  | . : : : : | : | | : : : | | : : . | | | : | | . | | : | | .
51 GPPNTKSFSLNKEGDSTPWNHPSLEPWDKANFFISNVREQQAGRYHCSH 100

101 RSPVGWSQPSDPLELVMTGAYS.....KPTLSALPSPLVTSGKSVTLLC 144
   . | | | : | | : | | : | | . . : | | | . | | | | . | | | | |
101 FIGVNWSEPEPLDLLVAGEEPAGRLRDRPSLSVRPSPSVAPGENVTLLC 150

145 QSRSPMDTFLLIKERAAHPLLHLRSEHGAQQHQAEFPMSPVTSVHGGTYR 194
   | | . . | | | | | | | | | | | | | | | | | | | | | | | | | |
151 QSGNRTDTFLLSKEGAHRPLRLRSQDQDGWYQAEFSLSPVTSAHGGTYR 200

195 CFSSHGFSHYLLSHPSDPLELIVSGSLEGPRPSPTRSVSTAAGPEDQPLM 244
   | : . | : . . | | | | : | | : | | . | : | | : | | : | | :
201 CYRSLSTNPYLLSQPSEPLALLV.....ADYTMQNLI 232

245 PTGSVPHSGLRRHWEVLIGVLVVSILLLSLLLFLLLQHWROGKHRTLAQR 294
   . | | | | | | | | | | | | | | | | | | | | | | | | | | |
233 RMG.....LAASVLLLLGILL.....CQARHDHGGAR 259
295 QAD 297
   : | .
260 EAA 262
```

FIG. 11



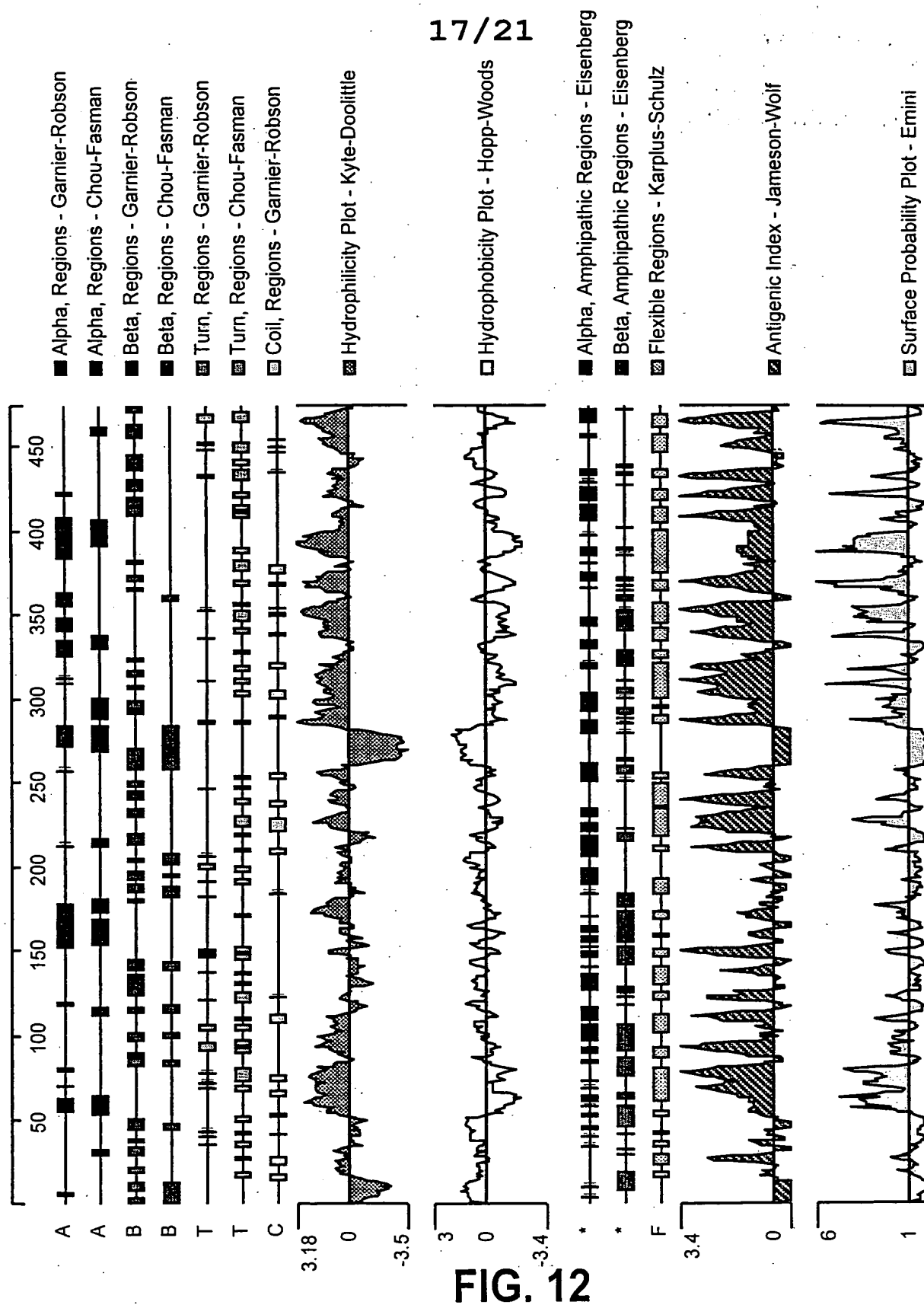


FIG. 12

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FcR-V

|     |                                                              |     |
|-----|--------------------------------------------------------------|-----|
| 1   | GCAGGAATTCGGCACGAGCAGAGCAGGGCAGTGGGAGGAGAGCCATGACCCCATCCTC   | 60  |
| 1   | <u>M T P I L</u>                                             | 5   |
| 61  | ACGGTCCTGATCTGTCTCGGGCTGAGTCTGGGCCCAGGACCCACGTGCAGGCAGGGCAC  | 120 |
| 6   | <u>T V L I C L G L S L G P R T H V Q A G H</u>               | 25  |
| 121 | CTCCCCAAGCCCACCCTCTGGGCTGAGCCAGGCTCTGTGATCATCCAGGGAAGTCCTGTG | 180 |
| 26  | L P K P T L W A E P G S V I I Q G S P V                      | 45  |
| 181 | ACCCTCAGGTGTCAGGGGAGCCTTCAGGCTGAGGAGTACCATCTATATAGGAAAACAAA  | 240 |
| 46  | T L R C Q G S L Q A E E Y H L Y R E N K                      | 65  |
| 241 | TCAGCATCCTGGGTTAGACGGATACAAGAGCCTGGGAAGAATGGCCAGTCCCCATCCCA  | 300 |
| 66  | S A S W V R R I Q E P G K N G Q F P I P                      | 85  |
| 301 | TCCATCACCTGGGAACACGCAGGGCGGTATCACTGTCACTACTACAGCCACAATCACTCA | 360 |
| 86  | S I T W E H A G R Y H C Q Y Y S H N H S                      | 105 |
| 361 | TCAGAGTACAGTGACCCCCTGGAGCTGGTGGTGACAGGAGCCTACAGCAAACCCACCCTC | 420 |
| 106 | S E Y S D P L E L V V T G A Y S K P T L                      | 125 |
| 421 | TCAGCTCTGCCAGCCCTGTGGTGACCTTAGGAGGGAACGTGACCCTCCAGTGTGTCTCA  | 480 |
| 126 | S A L P S P V V T L G G N V T L Q C V S                      | 145 |
| 481 | CAGGTGGCATTGACGGCTTCATTCTGTGTAAGGAAGGAGAAGATGAACACCCACAACGC  | 540 |
| 146 | Q V A F D G F I L C K E G E D E H P Q R                      | 165 |
| 541 | CTGAACTCCCATTCCCATGCCCGTGGGTGGTCTGGGCCATCTTCTCCGTGGGCCCCGTG  | 600 |
| 166 | L N S H S H A R G W S W A I F S V G P V                      | 185 |
| 601 | AGCCCGAGTCGCAGGTGGTCTGACAGGTGCTATGCTTATGACTCGAACTCTCCCTATGTG | 660 |
| 186 | S P S R R W S Y R C Y A Y D S N S P Y V                      | 205 |
| 661 | TGGTCTCTACCCAGTGATCTCCTGGAGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCA | 720 |
| 206 | W S L P S D L L E L L V P G V S K K P S                      | 225 |
| 721 | CTCTCAGTGCAGCCAGGTCTATGGTGGCCCCCTGGGAGAGCCTGACCCTCCAGTGTGTC  | 780 |
| 226 | L S V Q P G P M V A P G E S L T L Q C V                      | 245 |
| 781 | TCTGATGTCGGCTACGACAGATTGTTCTGTATAAGGAGGGAGAACGTGACTTCCTCCAG  | 840 |
| 246 | S D V G Y D R F V L Y K E G E R D F L Q                      | 265 |

FIG. 13A

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FcR-V

|      |                                                              |      |
|------|--------------------------------------------------------------|------|
| 841  | CGCCCTGGTTGGCAGCCCCAGGCTGGGCTCTCCCAGGCCAACTTCACCCTGGGCCCTGTG | 900  |
| 266  | R P G W Q P Q A G L S Q A N F T L G P V                      | 285  |
| 901  | AGCCCTCCACGGGGGCCAGTACAGATGCTACAGTGCACACAACCTCTCCTCCGAGTGG   | 960  |
| 286  | S P S H G G Q Y R C Y S A H N L S S E W                      | 305  |
| 961  | TCGGCCCCAGTGACCCCTGGACATCCTGATCACAGGACAGTTCTATGACAGACCCTCT   | 1020 |
| 306  | S A P S D P L D I L I T G Q F Y D R P S                      | 325  |
| 1021 | CTCTCGGTGCAGCCGGTCCCCACAGTAGCCCCAGGAAAGAACGTGACCCTGCTGTGTGAG | 1080 |
| 326  | L S V Q P V P T V A P G K N V T L L C Q                      | 345  |
| 1081 | TCACGGGGCAGTTCCACACTTTCCTTCTGACCAAGGAGGGGGCAGGCCATCCCCACTG   | 1140 |
| 346  | S R G Q F H T F L L T K E G A G H P P L                      | 365  |
| 1141 | CATCTGAGATCAGAGCACCAAGCTCAGCAGAACCAGGCTGAATTCCGCATGGGTCTGTG  | 1200 |
| 366  | H L R S E H Q A Q Q N Q A E F R M G P V                      | 385  |
| 1201 | ACCTCAGCCCACGTGGGGACCTACAGATGCTACAGCTCACTCAGCTCCAACCCCTACCTG | 1260 |
| 386  | T S A H V G T Y R C Y S S L S S N P Y L                      | 405  |
| 1261 | CTGTCTCTCCCCAGTGACCCCTGGAGCTCGTGGTCTCAGCATCCCTAGGCCAACACCCC  | 1320 |
| 406  | L S L P S D P L E L V V S A S L G Q H P                      | 425  |
| 1321 | CAGGATTACACAGTGGAGAATCTCATCCGCATGGGTGTGGCTGGCTTGGTCTGGTGGTC  | 1380 |
| 426  | Q D Y T V E N L I R M G V A G L V L V V                      | 445  |
| 1381 | CTCGGGATTCTGCTATTTGAGGCTCAGCACAGCCAGAGAAGCCTACAAGATGCAGCCGGG | 1440 |
| 446  | L G I L L F E A Q H S Q R S L Q D A A G                      | 465  |
| 1441 | AGTGAACAGCAGAGAGGACAATGCATCCTTCAGCGTGGTGGAGCCTCAGGGACAGATCTG | 1500 |
| 466  | S E Q Q R G Q C I L Q R G G A S G T D L                      | 485  |
| 1501 | ATGATCCCAGGAGGCTCTGGAGGACAATCTAGGACCTACATTATCTGGACTGTATGCTGG | 1560 |
| 486  | M I P G G S G G Q S R T Y I I W T V C W                      | 505  |
| 1561 | TCATTTCTAGAGACAGCAATCAATATTTGAGTGTAAAGGAACTGTCTGGGGTGATTCTTA | 1620 |
| 506  | S F L E T A I N I *                                          | 514  |
| 1621 | GAAGATCATTAAGTGTGGTACATTTTTTTGTCTATG                         | 1657 |

FIG. 13B

Percent Similarity: 70.722 Percent Identity: 55.513  
HMAAB68.aa x FCg2RBos.aa

FIG. 14

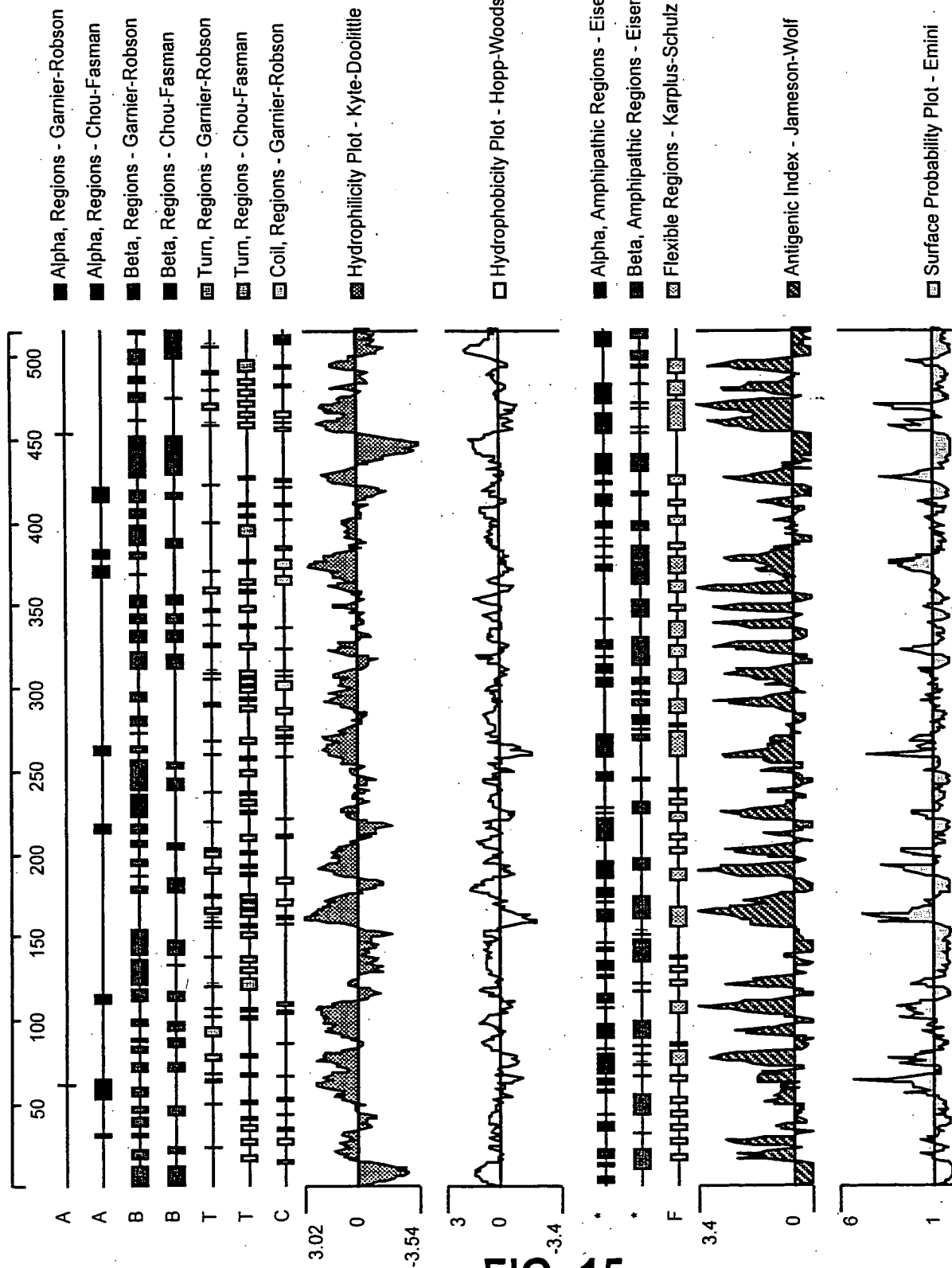


FIG. 15